

Appl. No. 10/025,900

Amdt. dated July 6, 2006

Reply to Final Office action of April 6, 2006

Please amend the claims as follows. This Listing of Claims will replace all prior versions and

Listings of Claims in the application:

Listing of Claims:

- 1 Claim 1 (Currently Amended): A method for executing processing tasks in a
2 distributed processing framework system including two or more processing resources, the
3 method comprising:
4 identifying a main task of a tasklist, with said main task having a plurality of main
5 instructions, said main instructions being executable;
6 identifying a subtask of the main task, with said sub-task having a plurality of sub-
7 instructions, said sub-instructions being executable;
8 allocating computing resources for the main task and the subtask ~~prior to proceeding~~
9 ~~to a next operation~~ before executing said plurality of main instructions and said plurality of
10 sub-instructions, the allocated computing resource including a first computing system and a
11 second computing system; and
12 deploying the main task to the first computing system, a code of the main task being
13 executed on the first computing system, the code of the main task having program
14 instructions for requesting loading of a code for the subtask to the second computing system,
15 the code for the subtask is in client-server communication with the code for the main task,
16 such that the code for the main task receives processing results directly from the code for the
17 subtask,
18 wherein the first computing system is configured to be allocated to the main task
19 continuously until each aspect of the plurality of main instructions of the main task is
20 executed or ~~an aspect~~ one of said plurality of main instructions of the main task causes an
21 execution of the main task to discontinue, and further wherein the second computing system
22 is configured to be allocated to the subtask continuously until each aspect of the plurality of
23 sub-instructions of the subtask is executed or ~~an aspect~~ one of said plurality of sub-
24 instructions of the subtask causes an execution of the subtask to discontinue.

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1 Claim 2 (Original): A method for executing processing tasks in a distributed
2 processing framework system as recited in claim 1, wherein the processing results received
3 from the subtask are implemented to create a main task processing results to be
4 communicated to a system controller.

1 Claim 3 (Original): A method for executing processing tasks in a distributed
2 processing framework system as recited in claim 2, wherein the system controller releases the
3 allocated computing resources upon receiving the main task processing results from the main
4 task.

1 Claim 4 (Original): A method for executing processing tasks in a distributed
2 processing framework system as recited in claim 1, further including,
3 a plurality of subtasks in addition to the subtask, the plurality of subtasks configured
4 to be controlled by the main task.

1 Claim 5 (Currently Amended): A method for distributing an execution of a
2 plurality of tasks within a tasklist by a system controller, the plurality of tasks configured to
3 be processed by a plurality of processing resources in a distributed processing framework
4 (DPF) system, the method comprising:
5 loading the tasklist, the tasklist having a main task, including a plurality of main
6 instructions, and a subtask including a plurality of sub-instructions;
7 allocating processing resources to execute the main task and the subtask within the
8 tasklist before ~~proceeding to a next operation~~ executing said plurality of main instructions
9 and said plurality of sub-instructions, the allocated processing resources including a first
10 processing resource and a second processing resource, the first processing resource being
11 separate for the second processing resource;
12 deploying the main task to the first processing resource for execution;

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13 deploying the subtask to the second processing resource once a special request for the
14 subtask is received from the main task; and
15 enabling communication between the main task and the subtask, the communication
16 configured to provide the main task with a result of a subtask execution,
17 wherein the first processing resource is configured to be allocated to the main task
18 continuously until each ~~aspect of the main task~~ of said plurality of main instructions is
19 executed or ~~an aspect of the main task~~ one of said plurality of main instructions causes an
20 execution of the main task to discontinue, and further wherein the second computing resource
21 is configured to be allocated to the subtask continuously until each ~~aspect of the subtask~~ of
22 said plurality of sub instructions is executed or ~~an aspect of the subtask~~ one of said plurality
23 of sub instructions causes an execution of the subtask to discontinue.

1 Claim 6 (Original): The method of claim 5, further including,
2 communicating a result of a main task execution to the system controller, wherein the
3 system controller releases the plurality of processing resources upon receiving the result of
4 main task execution.

1 Claim 7 (Previously Presented): The method of claim 5, wherein allocating the
2 processing resources to execute the main task and the subtask includes,
3 loading the tasklist by the system controller;
4 searching a registry service for the processing resources having a plurality of
5 attributes identical to a plurality of attributes of the main task and the subtask within the
6 tasklist; and
7 allocating the first and the second processing resources respectively having attributes
8 identical to the main task and the subtask to the execution of the main task and subtask
9 correspondingly having the identical attributes.

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1 **Claim 8 (Previously Presented):** The method of claim 7, wherein deploying the
2 subtask to the second processing resource once the special request for the subtask is received
3 from the main task includes,
4 dispatching the special request to the system controller, the special request configured
5 to include the plurality of attributes of the subtask;
6 searching the tasklist, the searching configured to locate the subtask having the
7 plurality of attributes included in the special request; and
8 deploying the located subtask to the second processing resource having the plurality
9 of attributes identical to the plurality of attributes of the subtask.

1 **Claim 9 (Original):** The method of claim 8, wherein the registry service is a look up
2 service.

1 **Claim 10 (Original):** The method of claim 5, wherein the DPF is a distributed test
2 framework (DTF) system.

1 **Claim 11 (Original):** The method of claim 5, wherein the main task is operated on a
2 processing resource server.

1 **Claim 12 (Original):** The method of claim 5, wherein the subtask is operated on a
2 processing resource client.

1 **Claim 13 (Original):** The method of claim 5, wherein the main task is a test harness.

1 **Claim 14 (Currently Amended):** A method for distributing an execution of a
2 plurality of tasks by a system controller, the plurality of tasks configured to be processed by a
3 plurality of processing resources in a distributed processing framework (DPF) system, the
4 method comprising:

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5 loading the plurality of tasks, each of which includes instructions to be executed;
6 allocating a separate processing resource to execute each task of the plurality of tasks
7 ~~prior to proceeding to a next operation~~ before executing said instructions by searching a
8 registry service for the processing resource having a plurality of attributes identical to a
9 plurality of attributes of each task, and allocating each of the processing resources having a
10 plurality of attributes identical to the plurality of each task to the execution of the task having
11 the identical attributes;
12 deploying each task to a respective processing resource at the same time;
13 receiving a result task from each respective processing resource upon a conclusion of
14 each task; and
15 ~~releasing~~ making the plurality of processing resources available for allocation of
16 additional tasks upon receiving the result task from each of the plurality of processing
17 resources.

1 Claim 15 Cancelled

1 Claim 16 (Original): The method of claim 14, wherein the DPF system is a
2 distributed test framework system.

1 Claim 17 (Currently Amended): The method of claim 16, wherein the processing
2 ~~resource is~~ resources are a test system.

1 Claim 18 (Currently Amended): A method for distributing an execution of a
2 plurality of tasks by a system controller, the plurality of tasks configured to be processed by a
3 plurality of processing resources in a distributed processing framework (DPF) system, the
4 method comprising:

5 loading the plurality of tasks, each of which includes instructions, to be executed;
6 allocating a respective processing resource of the plurality of processing resources to
7 execute each task of the plurality of tasks ~~before proceeding to a next operation~~ executing

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8 said instructions by searching a registry service for the processing resource having a plurality
9 of attributes identical to a plurality of attributes of each task, and allocating each of the
10 processing resources having a plurality of attributes identical to the plurality of each task for
11 the execution of the task having the identical attributes;

12 deploying a first task of the plurality of tasks to a first processing resource of the
13 plurality of processing resources;

14 deploying a second task of the plurality of tasks to a second processing resource of the
15 plurality of processing resources upon receiving a result of an execution of the first task; and

16 ~~releasing~~ making the plurality of processing resources available for allocation of
17 additional tasks upon receiving a result of execution for each of the plurality of tasks,

18 wherein each processing resource is configured to be allocated to a respective task
19 continuously until each ~~aspect~~ of the instructions associated with said respective task is
20 executed or ~~an aspect of the~~ one of the instructions associated with said respective task causes
21 an execution of the task to discontinue .

1 Claim 19 (Original): The method of claim 18, further including, caching the result of
2 the execution for each of the plurality of tasks.

1 Claim 20 Cancelled.

1 Claim 21 (Original): The method of claim 18, wherein the registry service is a look
2 up service.

1 Claim 22 (Original): The method of claim 18, wherein the DPF is a distributed test
2 framework (DTF) system.